

2010-06-03 Thursday Morning Notes

Thursday, June 03, 2010
7:04 AM

Stacking

- Stacking Numbers
 - <stacking rate> = 26.9 mA/hr
 - <production> = 20.2 pbar/Mp
 - <beam on target> = 8.1 Tp

Transfers

- Unstacked 516mA in 60 transfers over 19 sets.

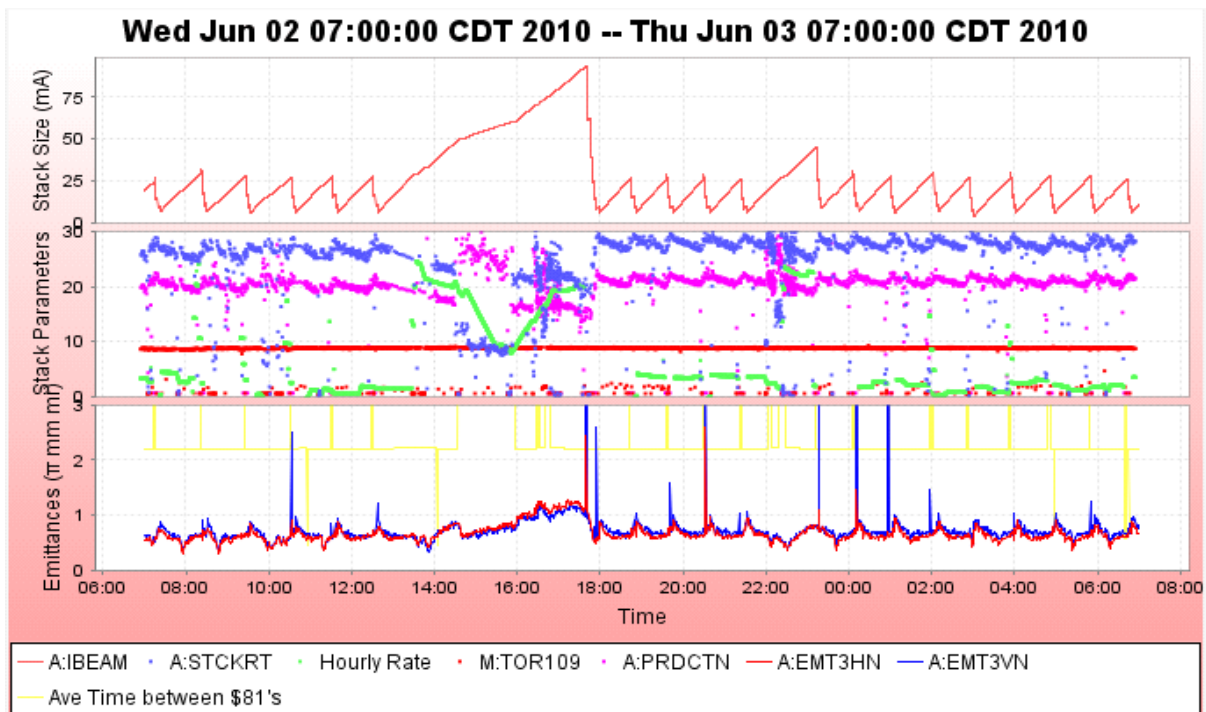
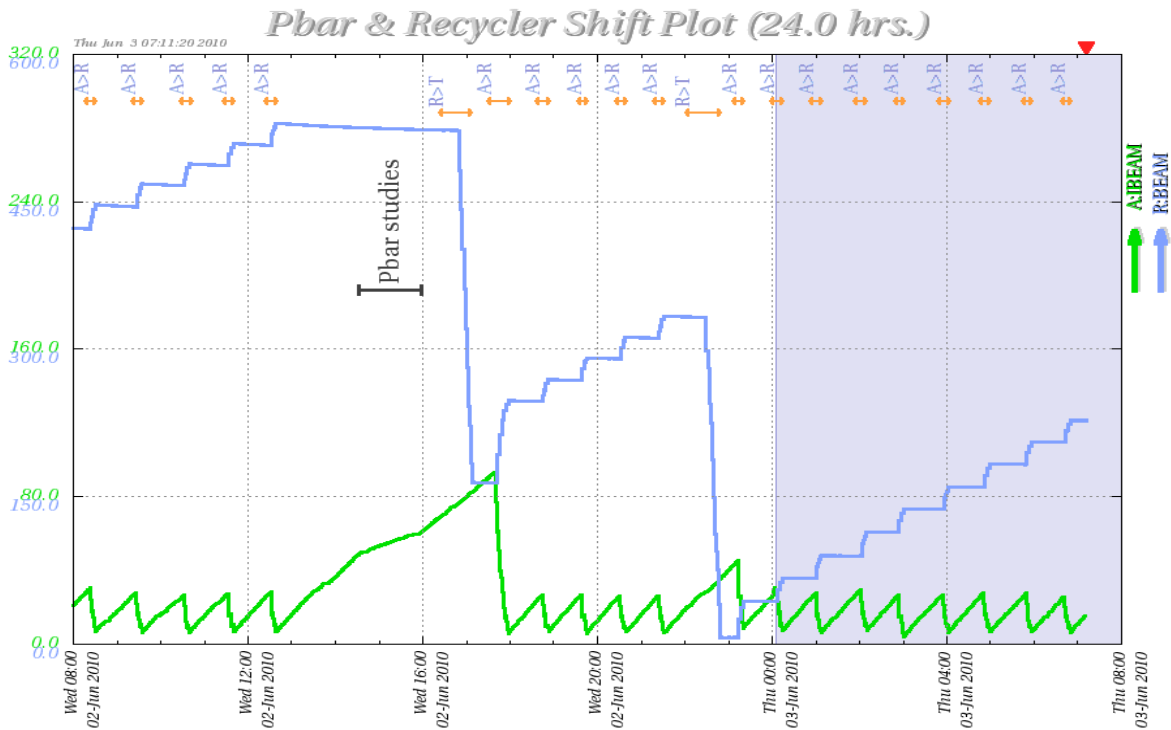
Studies

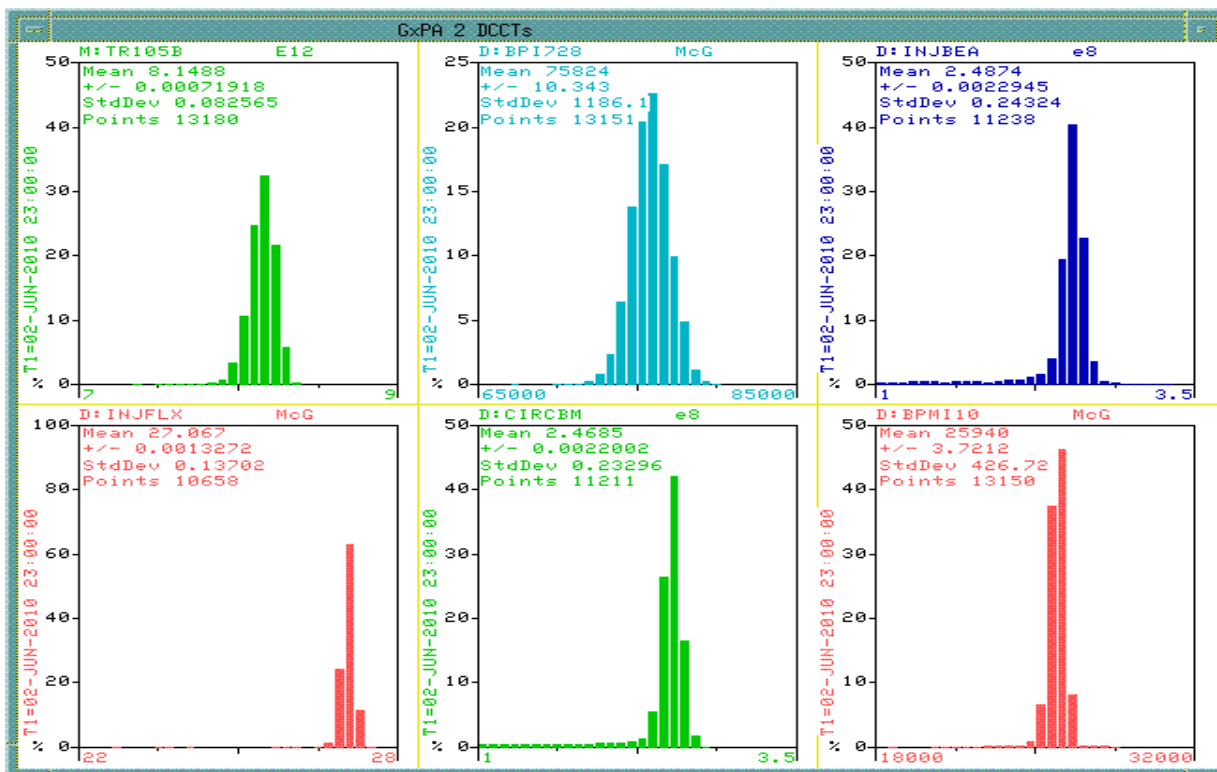
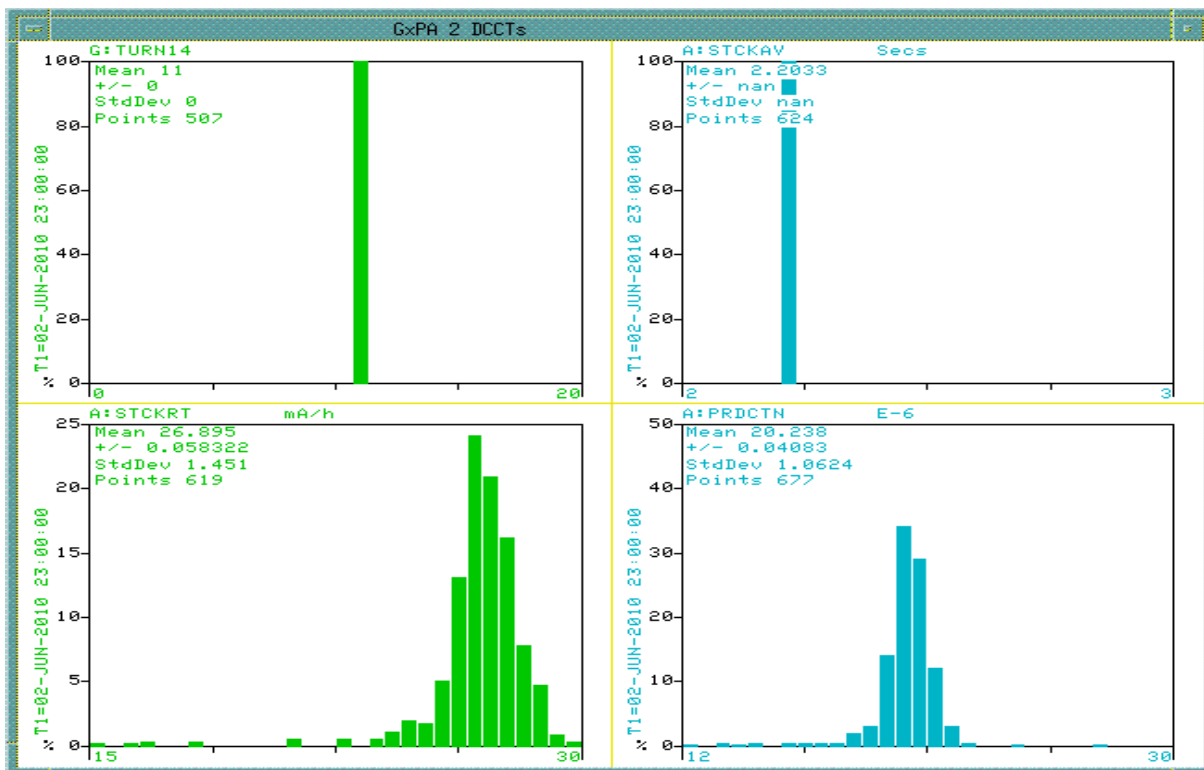
- Worked on Debuncher notch filter #2.

The Numbers

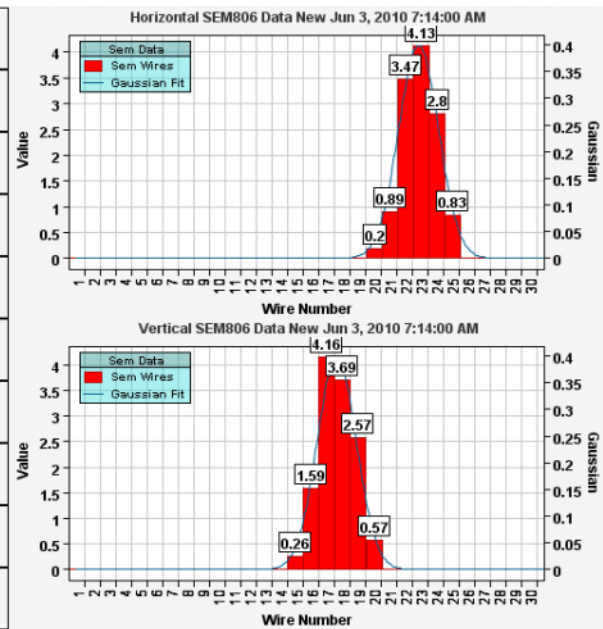
- Stacking
 - Pbars stacked: 548.78 E10
 - Time stacking: 23.78 Hr
 - Average stacking rate: 23.07 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 36387
 - Number of pulses with beam: 34775
 - Fraction of up pulses was: 95.57%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 22.73 Hr
 - Possible average stacking rate: 24.14 E10/Hr
 - Could have stacked: 574.22 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 550.90 E10
 - Number of transfers : 62
 - Number of transfer sets: 20
 - Average Number of transfer per set: 3.10
 - Time taken to shoot including reverse proton tuneup: 00.22 Hr
 - Transfer efficiency: 94.50%
- Other Info
 - Average POT : 8.14 E12
 - Average production: 19.39 pbars/E6 protons
-

The Plots

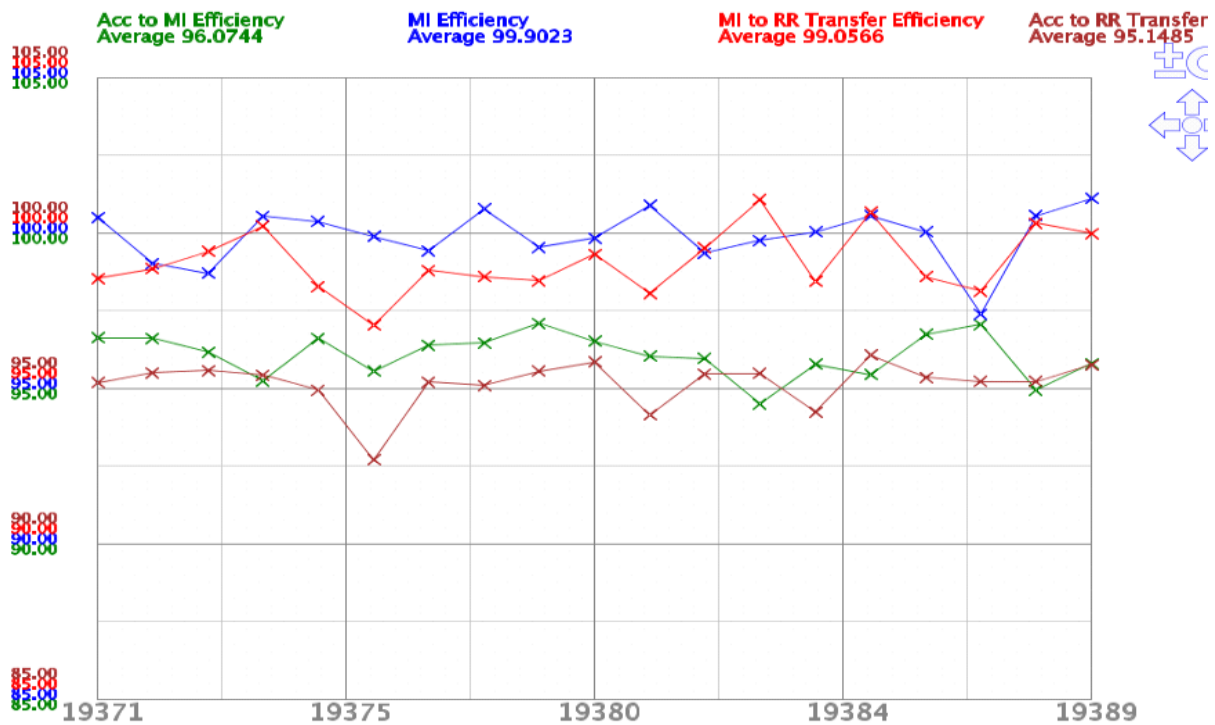




| | | |
|-----------------------|---------------|-----------|
| Horizontal Area New | 12.31 | Intensity |
| Horizontal Area Calc | 218.34 | Intensity |
| Horizontal Sigma New | 3.28 | mm |
| Horizontal Sigma Calc | 3.1 | mm |
| Horizontal Mean | 23.66 | mm |
| Vertical Area New | 12.84 | Intensity |
| Vertical Area Calc | 222.1 | Intensity |
| Vertical Sigma New | 3.37 | mm |
| Vertical Sigma Calc | 3.17 | mm |
| Vertical Mean | 7.96 | mm |



Transfers Plots



| Column 1 Number _0_Pbar Transfer Shot # | Column 4 Number_3_Transfer Time | Column 21 Number _20_A-I BEAMB sampled on \$91 (A:BEA M7), E10 | Column 22 Number _21_A-I BEAMB sampled on \$94 (A:BEA M9), E10 | Unstacked (mA) | Column 23 Number _22_R: BEAMS (R:BEA ME0(0)) pre sfer E10 | Column 24 Number _23_R: BEAM (R:BEA ME0(1)) post sfer, E10 | Stashed | Acc to RR Eff | Acc to MI Eff | Acc to MI2 Eff | Trans fers | Set s | Column 5 Number _4_Acc Horizontal Emittanc e | Column 6 Number _5_Acc Vertical Emittanc e | Column 8 Number _7_Acc Longitu dinal Emittanc e | |
|--|---------------------------------|---|---|-------------------|---|--|---------|------------------|------------------|-------------------|---------------|----------|--|--|--|-------|
| | Totals => | | | 544.28 | | | 515.58 | 94.73% | 96.16% | 96.02% | 60 | 19 | 6.1293 | 6.4674 | 1.9629 | |
| 19389 | Thursday, June 03, 2010 | 6:42 | 26.23 | 5.92 | 22.99 | 205.60 | 227.54 | 22.12 | 96.22% | 96.57% | 97.14% | 3 | 1 | 5.816 | 6.685 | 1.984 |
| 19388 | Thursday, June 03, 2010 | 5:49 | 27.75 | 6.21 | 24.23 | 182.91 | 205.89 | 23.14 | 95.50% | 95.70% | 96.04% | 3 | 1 | 6.128 | 6.178 | 1.979 |
| 19387 | Thursday, June 03, 2010 | 4:51 | 28.23 | 6.17 | 24.70 | 159.67 | 183.19 | 23.57 | 95.43% | 96.86% | 94.84% | 3 | 1 | 5.94 | 6.546 | 1.986 |
| 19386 | Thursday, June 03, 2010 | 3:55 | 27.42 | 6.29 | 23.82 | 137.34 | 159.95 | 22.66 | 95.13% | 96.30% | 96.36% | 3 | 1 | 5.971 | 6.651 | 1.978 |
| 19385 | Thursday, June 03, 2010 | 2:53 | 26.66 | 3.67 | 24.34 | 114.27 | 137.55 | 23.36 | 95.97% | 95.53% | 95.96% | 3 | 1 | 4.726 | 5.575 | 1.888 |
| 19384 | Thursday, June 03, 2010 | 2:02 | 30.05 | 6.66 | 26.08 | 89.83 | 114.41 | 24.65 | 94.49% | 96.10% | 95.94% | 3 | 1 | 6.478 | 6.842 | 1.973 |
| 19383 | Thursday, June 03, 2010 | 1:00 | 27.56 | 5.98 | 24.29 | 66.90 | 89.98 | 23.23 | 95.63% | 95.33% | 95.13% | 3 | 1 | 6.197 | 6.366 | 1.956 |
| 19382 | Thursday, June 03, 2010 | 0:07 | 28.88 | 6.97 | 24.60 | 43.65 | 67.02 | 23.41 | 95.15% | 95.81% | 95.29% | 3 | 1 | 6.41 | 6.779 | 1.98 |
| 19381 | Wednesday, June 02, 2010 | 23:13 | 45.41 | 8.58 | 39.37 | 6.76 | 43.72 | 37.05 | 94.09% | 96.21% | 96.57% | 3 | 1 | 6.842 | 7.142 | 1.943 |
| 19380 | Wednesday, June 02, 2010 | 21:24 | 26.45 | 5.64 | 23.52 | 311.38 | 333.71 | 22.63 | 96.20% | 96.95% | 96.94% | 3 | 1 | 6.13 | 6.506 | 1.984 |
| 19379 | Wednesday, June 02, 2010 | 20:31 | 26.64 | 5.94 | 23.36 | 290.27 | 312.33 | 22.31 | 95.51% | 96.29% | 96.27% | 3 | 1 | 6.303 | 6.655 | 1.965 |
| 19378 | Wednesday, June 02, 2010 | 19:38 | 26.85 | 5.59 | 23.86 | 268.46 | 291.11 | 22.81 | 95.60% | 96.88% | 96.93% | 3 | 1 | 6.262 | 6.61 | 1.968 |
| 19377 | Wednesday, June 02, 2010 | 18:45 | 26.97 | 6.14 | 23.51 | 247.03 | 269.26 | 22.40 | 95.27% | 96.62% | 96.48% | 3 | 1 | 6.222 | 6.535 | 1.963 |
| 19376 | Wednesday, June 02, 2010 | 17:41 | 93.62 | 5.66 | 92.49 | 163.93 | 248.01 | 84.63 | 91.50% | 95.34% | 95.24% | 6 | 1 | 6.731 | 6.58 | 1.926 |
| 19375 | Wednesday, June 02, 2010 | 12:31 | 28.20 | 6.27 | 24.39 | 507.32 | 530.11 | 23.21 | 95.14% | 96.53% | 97.15% | 3 | 1 | 6.219 | 6.51 | 1.997 |
| 19374 | Wednesday, June 02, 2010 | 11:33 | 27.74 | 6.16 | 24.16 | 486.78 | 509.41 | 23.10 | 95.58% | 95.69% | 95.83% | 3 | 1 | 6.02 | 6.086 | 1.966 |
| 19373 | Wednesday, June 02, 2010 | 10:32 | 26.91 | 6.05 | 23.46 | 466.58 | 488.69 | 22.49 | 95.87% | 96.22% | 94.92% | 3 | 1 | 6.023 | 6.247 | 1.952 |
| 19372 | Wednesday, June 02, 2010 | 9:27 | 28.40 | 6.01 | 24.85 | 444.87 | 468.36 | 23.79 | 95.73% | 97.00% | 95.92% | 3 | 1 | 5.851 | 6.163 | 1.935 |
| 19371 | Wednesday, June 02, 2010 | 8:23 | 30.54 | 6.80 | 26.24 | 422.36 | 447.07 | 25.04 | 95.45% | 97.43% | 97.33% | 3 | 1 | 6.187 | 6.225 | 1.972 |